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(54) Title: FOOD PRODUCTS COMPRISING FAT AND A STARCH-CONTAINING MATTER AND PROCESS FOR THEIR MANUFACTURE

(57) Abstract: Food compositions comprising 15-80% wt of triglycerides of fatty acids, 20-85% wt aStarchy or starch-containing matter and which compositions contain less than 30% wt of moisture, wherein the amount of H3 (triglyceride of 3 saturated fatty acids of 16 or more carbon atoms) and H2U (triglyceride of 2 saturated fatty acids of 16 or more carbon atoms and 1 cis-unsaturated fatty acid) taken together is at least 55% wt on the total amount of triglycerides, and process for their manufacture.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, FSTA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 568 551 A (SEEWI GILA ET AL) 4 February 1986 (1986-02-04)	15,16
A	column 3, line 40 -column 6, line 8; claims 1,4,5,7,8,13,14; examples ---	1-14,16
X	EP 1 249 172 A (NESTLE SA) 16 October 2002 (2002-10-16)	15,16
A	page 2, line 45-47 page 3, line 19-27; examples 1-3 ---	1-14
X	US 5 332 585 A (ODERMATT ROBERT G ET AL) 26 July 1994 (1994-07-26)	15,16
A	column 1, line 52 -column 2, line 68; claims 1,2,5-7,13,14; example ---	1-14 -/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 939 114 A (CAIN FREDERICK WILLIAM ET AL) 17 August 1999 (1999-08-17) column 1, line 1 -column 3, line 18; claims; examples -----	1-16

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/12032

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4568551	A	04-02-1986		DE 3243963 C1 AT 27219 T AU 563835 B2 AU 2161083 A CA 1204618 A1 DK 540483 A , B, EP 0112504 A2 ES 8501962 A1 FI 834319 A , B, GB 2130467 A , B GR 81256 A1 HK 84488 A IE 54781 B1 JP 59151860 A KR 9309078 B1 MX 9204075 A1 MX 164074 B MY 53587 A NO 834339 A , B, PH 20259 A PT 77707 A , B TR 22738 A ZA 8308750 A		12-04-1984 15-06-1987 23-07-1987 31-05-1984 20-05-1986 28-05-1984 04-07-1984 16-03-1985 28-05-1984 06-06-1984 11-12-1984 28-10-1988 31-01-1990 30-08-1984 22-09-1993 31-01-1994 13-07-1992 31-12-1987 28-05-1984 14-11-1986 01-12-1983 26-05-1988 25-07-1984
EP 1249172	A	16-10-2002	EP	1249172 A1		16-10-2002
US 5332585	A	26-07-1994		CH 681194 A5 AT 123386 T AU 647204 B2 AU 8777091 A BR 9105275 A CA 2055872 A1 DE 69110256 D1 DE 69110256 T2 DK 490082 T3 EP 0490082 A1 ES 2073646 T3 GR 3017238 T3 IE 913904 A1 JP 3149230 B2 JP 4267863 A MX 9102388 A1 PT 99696 A , B ZA 9109000 A		15-02-1993 15-06-1995 17-03-1994 11-06-1992 18-08-1992 08-06-1992 13-07-1995 26-10-1995 25-09-1995 17-06-1992 16-08-1995 30-11-1995 17-06-1992 26-03-2001 24-09-1992 01-06-1992 31-01-1994 26-08-1992
US 5939114	A	17-08-1999		AU 713549 B2 AU 3609395 A CA 2199827 A1 DE 69509914 D1 DE 69509914 T2 WO 9610339 A2 EP 0786943 A1 JP 10506286 T ZA 9508237 A		02-12-1999 26-04-1996 11-04-1996 01-07-1999 20-01-2000 11-04-1996 06-08-1997 23-06-1998 01-04-1997